## **RUBRIC: ROBOT USE**

Live Performance at State Championship

Skill sets: Students program a robot for a task

All students practice ethical, safe and legal behavior using technology.

Your challenge is to create a robot that is either a transformation of another item OR transforms the way you do a task. For example, you could create a robotic dog that is able to do some of the things a real dog does (i.e., catch a Frisbee, pull a sled, find a lost child, etc.) or you could create a robot that performs a task like mowing the yard or even picking crops. Remember that part of your score involves the story you tell about your robot and how it could transform our world.

SCHOOL NAME		
GRADE LEVEL: Elementary	Middle School	High School

## NAME : \_\_\_\_\_

CRITERIA	CRITERIA	CRITERIA
The task was performed at	The task was performed at a high	The task was performed at an
a satisfactory level and the	level and the solution showed	exceptional level and the
solution showed some	creativity	solution showed creativity
creativity		
SCORE POINTS: 0 1 2	3	4
The robot used no sensors,	The robot used at least one	The robot used more than one
but the student explained	sensor to perform the task	sensor to complete the task
how the robot could be		
adapted to use a sensor		
SCORE POINTS: 0 1 2	3	4
The robot showed minimal	The robot showed very good	The robot showed exceptional
engineering, creativity, and	engineering, creativity, and	engineering, creativity, and
building skills. The robot	building skills. The robot was	building skills. The robot was
was sturdy, and the design	sturdy, and the design was	very sturdy, and the design was
was somewhat appropriate	appropriate to the task.	exceptionally appropriate to
to the task.		the task.
SCORE POINTS: 0 1 2	3	4
Student did a satisfactory	Student did a good job	Student did an excellent job
job describing the task the	describing the task the way it is	describing the task the way it is
way it is currently done in	currently done in the community	currently done in the
the community or in the	or in the competition. The detail	community or in the
competition. The detail was	was at a medium level.	competition. The detail was at
at a satisfactory level.		a high level.
SCORE POINTS: 0 1 2	3	4
Student did a satisfactory	Student did a good job	Student did an excellent job
job describing the robot	describing the robot and how the	describing the robot and how
and how the robot could do	robot could do the task better	the robot could do the task
the table of the than the	than the 'traditional' way. Or, the	better than the 'traditional' way. Or, the student described the
'traditional' way. Or, the student described the	student described the reason they chose to showcase this particular	reason they chose to showcase
reason they chose to	robot in the competition.	this particular robot in the
showcase this particular	1000t in the competition.	competition.
robot in the competition.		competition.
SCORE POINTS: 0 1 2	3	4
The props somewhat added	The props added to the	The props greatly added to the
to the presentation. Or, the	presentation. Or, the students	presentation. Or, the students
students minimally used	somewhat used the competition	properly used the competition
the competition props to	props to enhance their	props to enhance their
enhance their presentation.	presentation.	presentation.
SCORE POINTS: 0 1 2	3	4
	TOTAL SCORE OF 24:	
	TOTAL SCORE OF 24:	